OIPE

CRF Error Corrected by the STIC Systems Branch

Serial Number: 09/841,132 ENTERED

CRF Processing Date: 5/10/2001
Edited by:
Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: ~~#~~ 2

  _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

  _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

  _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

  _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

  _____

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

  _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

  _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☑ Other: corrected spelling of "Chlamydia" globally

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

**RAW SEQUENCE LISTING** DATE: 05/22/2001
PATENT APPLICATION: **US/09/841,132** TIME: 16:14:05

Input Set : **A:\US08186269A.raw**
Output Set: **C:\CRF3\05222001\I841132.raw**

<110> APPLICANT: Bhatia, Ajay
Skeiky, Yasir A.W.
Probst, Peter
<120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND DIAGNOSIS OF CHLAMYDIAL INFECTION
<130> FILE REFERENCE: 210121.469C8
C--> **<140> CURRENT APPLICATION NUMBER: US/09/841,132**
<141> CURRENT FILING DATE: 2001-04-23
<160> NUMBER OF SEQ ID NOS: 599
<170> SOFTWARE: FastSEQ for Windows Version 3.0/4.0
<210> SEQ ID NO: 1
<211> LENGTH: 481
<212> TYPE: DNA
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 1
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gcgaaggaag agccctcaac ttttcttatc accttcttta actaggagtc atccatgagt 120
caaaataaga actctgcttt catgcagcct gtgaacgtat ccgctgattt agctgccatc 180
gttggtgcag gacctatgcc tcgcacagag atcattaaga aaatgtggga ttacattaag 240
gagaatagtc ttcaagatcc tacaaacaaa cgtaatatca atcccgatga taaattggct 300
aaagtttttg gaactgaaaa acctatcgat atgttccaaa tgacaaaaat ggtttctcaa 360
cacatcatta aataaaatag aaattgactc acgtgttcct cgtctttaag atgaggaact 420
agttcattct ttttgttcgt ttttgtgggt attactgtat ctttaacaac tatcttagca 480
g 481
<210> SEQ ID NO: 2
<211> LENGTH: 183
<212> TYPE: DNA
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 2
atcgttggtg caggacctat gcctcgcaca gagatcatta agaaaatgtg ggattacatt 60
aaggagaata gtcttcaaga tcctacaaac aaacgtaata tcaatcccga tgataaattg 120
gctaaagttt ttggaactga aaaacctatc gatatgttcc aaatgacaaa aatggtttct 180
caa 183
<210> SEQ ID NO: 3
<211> LENGTH: 110
<212> TYPE: DNA
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 3
gctgcgacat catgcgagct tgcaaaccaa catggacatc tccaatttcc ccttctaact 60
cgctctttgg aactaatgct gctaccgagt caatcacaat cacatcgacc 110
<210> SEQ ID NO: 4
<211> LENGTH: 555
<212> TYPE: DNA
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 4
cggcacgagc ctaagatgct tatactactt taagggaggc ccttcgtatg ccgcgcatca 60
ttggaataga tattcctgcg aaaaagaaat taaaaataag tcttacatat atttatggaa 120

RAW SEQUENCE LISTING DATE: 05/22/2001
PATENT APPLICATION: US/09/841,132 TIME: 16:14:05

Input Set : A:\US08186269A.raw
Output Set: C:\CRF3\05222001\I841132.raw

tagggccagc tctttctaaa gagattattg ctagattgca gttgaatccc gaagctagag 180
ctgcagagtt gactgaggaa gaggttggtc gactaaacgc tcttttacag tcggattacg 240
ttgttgaagg ggatttgcgc cgtcgtgtgc aatctgatat caaacgtctg attactatcc 300
atgcttatcg tggacaaaga catagacttt ctttgcctgt tcgtggtcag agaacaaaaa 360
caaattctcg cacgcgtaag ggtaaacgta aaactattgc aggtaagaag aaataataat 420
ttttaggaga gagtgttttg gttaaaaatc aagcgcaaaa aagaggcgta aaaagaaaac 480
aagtaaaaaa cattccttcg ggcgttgtcc atgttaaggc tacttttaat aatacaattg 540
taaccataac agacc 555

<210> SEQ ID NO: 5
<211> LENGTH: 86
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis

<400> SEQUENCE: 5

Met Ser Gln Asn Lys Asn Ser Ala Phe Met Gln Pro Val Asn Val Ser
1 5 10 15
Ala Asp Leu Ala Ala Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu
20 25 30
Ile Ile Lys Lys Met Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp
35 40 45
Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val
50 55 60
Phe Gly Thr Glu Lys Pro Ile Asp Met Phe Gln Met Thr Lys Met Val
65 70 75 80
Ser Gln His Ile Ile Lys
85

<210> SEQ ID NO: 6
<211> LENGTH: 61
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis

<400> SEQUENCE: 6

Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu Ile Ile Lys Lys Met
1 5 10 15
Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp Pro Thr Asn Lys Arg
20 25 30
Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys
35 40 45
Pro Ile Asp Met Phe Gln Met Thr Lys Met Val Ser Gln
50 55 60

<210> SEQ ID NO: 7
<211> LENGTH: 36
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis

<400> SEQUENCE: 7

Ala Ala Thr Ser Cys Glu Leu Ala Asn Gln His Gly His Leu Gln Phe
1 5 10 15
Pro Leu Leu Thr Arg Ser Leu Glu Leu Met Leu Leu Pro Ser Gln Ser
20 25 30
Gln Ser His Arg
35

**RAW SEQUENCE LISTING** DATE: 05/22/2001
PATENT APPLICATION: **US/09/841,132** TIME: 16:14:05

Input Set : **A:\US08186269A.raw**
Output Set: **C:\CRF3\05222001\I841132.raw**

<210> SEQ ID NO: 8
<211> LENGTH: 18
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 8
Leu Arg His His Ala Ser Leu Gln Thr Asn Met Asp Ile Ser Asn Phe
1 5 10 15
Pro Phe

<210> SEQ ID NO: 9
<211> LENGTH: 5
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 9
Leu Ala Leu Trp Asn
1 5

<210> SEQ ID NO: 10
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 10
Cys Cys Tyr Arg Val Asn His Asn His Ile Asp
1 5 10

<210> SEQ ID NO: 11
<211> LENGTH: 36
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 11
Val Asp Val Ile Val Ile Asp Ser Val Ala Ala Leu Val Pro Lys Ser
1 5 10 15
Glu Leu Glu Gly Glu Ile Gly Asp Val His Val Gly Leu Gln Ala Arg
20 25 30
Met Met Ser Gln
35

<210> SEQ ID NO: 12
<211> LENGTH: 122
<212> TYPE: PRT
<213> ORGANISM: Chlamydia trachomatis
<400> SEQUENCE: 12
Met Pro Arg Ile Ile Gly Ile Asp Ile Pro Ala Lys Lys Lys Leu Lys
1 5 10 15
Ile Ser Leu Thr Tyr Ile Tyr Gly Ile Gly Pro Ala Leu Ser Lys Glu
20 25 30
Ile Ile Ala Arg Leu Gln Leu Asn Pro Glu Ala Arg Ala Ala Glu Leu
35 40 45
Thr Glu Glu Glu Val Gly Arg Leu Asn Ala Leu Leu Gln Ser Asp Tyr
50 55 60
Val Val Glu Gly Asp Leu Arg Arg Arg Val Gln Ser Asp Ile Lys Arg
65 70 75 80
Leu Ile Thr Ile His Ala Tyr Arg Gly Gln Arg His Arg Leu Ser Leu

RAW SEQUENCE LISTING DATE: 05/22/2001
PATENT APPLICATION: US/09/841,132 TIME: 16:14:05

Input Set : A:\US08186269A.raw
Output Set: C:\CRF3\05222001\I841132.raw

```
179                 85                  90                  95
180  Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ser Arg Thr Arg Lys Gly
181              100                 105                 110
182  Lys Arg Lys Thr Ile Ala Gly Lys Lys Lys
183          115                 120
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 20
187 <212> TYPE: PRT
188 <213> ORGANISM: Chlamydia trachomatis
190 <400> SEQUENCE: 13
191  Asp Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys
192   1               5                  10                  15
193  Val Phe Gly Thr
194              20
196 <210> SEQ ID NO: 14
197 <211> LENGTH: 20
198 <212> TYPE: PRT
199 <213> ORGANISM: Chlamydia trachomatis
201 <400> SEQUENCE: 14
202  Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys Pro Ile Asp Met
203   1               5                  10                  15
204  Phe Gln Met Thr
205              20
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 161
209 <212> TYPE: DNA
210 <213> ORGANISM: Chlamydia trachomatis
212 <400> SEQUENCE: 15
213  atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgtagcttc atcggaggaa      60
214  ttacctacct cgcgacattc ggagctatcc gtccgattct gtttgtcaac aaaatgctgg     120
215  cgcaaccgtt tctttcttcc caaactaaag caaatatggg a                        161
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 897
219 <212> TYPE: DNA
220 <213> ORGANISM: Chlamydia trachomatis
222 <400> SEQUENCE: 16
223  atggcttcta tatgcggacg tttagggtct ggtacaggga atgctctaaa agctttttt      60
224  acacagccca acaataaaat ggcaagggta gtaaataaga cgaagggaat ggataagact     120
225  attaaggttg ccaagtctgc tgccgaattg accgcaaata ttttggaaca agctggaggc     180
226  gcgggctctt ccgcacacat tacagcttcc caagtgtcca aaggattagg ggatgcgaga     240
227  actgttgtcg ctttagggaa tgcctttaac ggagcgttgc caggaacagt tcaaagtgcg     300
228  caaagcttct tctctcacat gaaagctgct agtcagaaaa cgcaagaagg ggatgagggg     360
229  ctcacagcag atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgtagcatc     420
230  atcggaggaa ttacctacct cgcgacattc ggagctatcc gtccgattct gtttgtcaac     480
231  aaaatgctgg caaaaccgtt tctttcttcc caaactaaag caaatatggg atcttctgtt     540
232  agctatatta tggcggctaa ccatgcagcg tctgtggtgg gtgctggact cgctatcagt     600
233  gcggaaagag cagattgcga agcccgctgc gctcgtattg cgagagaaga gtcgttactc     660
234  gaagtgccgg gagaggaaaa tgcttgcgag aagaaagtcg ctggagagaa agccaagacg     720
235  ttcacgcgca tcaagtatgc actcctcact atgctcgaga agtttttgga atgcgttgcc     780
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RAW SEQUENCE LISTING DATE: 05/22/2001
PATENT APPLICATION: US/09/841,132 TIME: 16:14:05

Input Set : A:\US08186269A.raw
Output Set: C:\CRF3\05222001\I841132.raw

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236  gacgttttca aattggtgcc gctgcctatt acaatgggta ttcgtgcgat tgtggctgct     840
237  ggatgtacgt tcacttctgc aattattgga ttgtgcactt tctgcgccag agcataa        897
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 298
241 <212> TYPE: PRT
242 <213> ORGANISM: Chlamydia trachomatis
244 <400> SEQUENCE: 17
245  Met Ala Ser Ile Cys Gly Arg Leu Gly Ser Gly Thr Gly Asn Ala Leu
246   1               5                  10                  15
247  Lys Ala Phe Phe Thr Gln Pro Asn Asn Lys Met Ala Arg Val Val Asn
248              20                  25                  30
249  Lys Thr Lys Gly Met Asp Lys Thr Ile Lys Val Ala Lys Ser Ala Ala
250          35                  40                  45
251  Glu Leu Thr Ala Asn Ile Leu Glu Gln Ala Gly Gly Ala Gly Ser Ser
252      50                  55                  60
253  Ala His Ile Thr Ala Ser Gln Val Ser Lys Gly Leu Gly Asp Ala Arg
254  65                  70                  75                  80
255  Thr Val Val Ala Leu Gly Asn Ala Phe Asn Gly Ala Leu Pro Gly Thr
256                  85                  90                  95
257  Val Gln Ser Ala Gln Ser Phe Phe Ser His Met Lys Ala Ala Ser Gln
258              100                 105                 110
259  Lys Thr Gln Glu Gly Asp Glu Gly Leu Thr Ala Asp Leu Cys Val Ser
260          115                 120                 125
261  His Lys Arg Arg Ala Ala Ala Ala Val Cys Ser Ile Ile Gly Gly Ile
262      130                 135                 140
263  Thr Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn
264  145                 150                 155                 160
265  Lys Met Leu Ala Lys Pro Phe Leu Ser Ser Gln Thr Lys Ala Asn Met
266                  165                 170                 175
267  Gly Ser Ser Val Ser Tyr Ile Met Ala Ala Asn His Ala Ala Ser Val
268              180                 185                 190
269  Val Gly Ala Gly Leu Ala Ile Ser Ala Glu Arg Ala Asp Cys Glu Ala
270          195                 200                 205
271  Arg Cys Ala Arg Ile Ala Arg Glu Glu Ser Leu Leu Glu Val Pro Gly
272      210                 215                 220
273  Glu Glu Asn Ala Cys Glu Lys Lys Val Ala Gly Glu Lys Ala Lys Thr
274  225                 230                 235                 240
275  Phe Thr Arg Ile Lys Tyr Ala Leu Leu Thr Met Leu Glu Lys Phe Leu
276                  245                 250                 255
277  Glu Cys Val Ala Asp Val Phe Lys Leu Val Pro Leu Pro Ile Thr Met
278              260                 265                 270
279  Gly Ile Arg Ala Ile Val Ala Ala Gly Cys Thr Phe Thr Ser Ala Ile
280          275                 280                 285
281  Ile Gly Leu Cys Thr Phe Cys Ala Arg Ala
282      290                 295
284 <210> SEQ ID NO: 18
285 <211> LENGTH: 18
286 <212> TYPE: PRT
287 <213> ORGANISM: Chlamydia trachomatis
```

PYT

***Please Note:***
**Use f n and/ r Xaa have been detected in the Sequence Listing. Pleas review th Sequence Listing t ensure that a c rresponding explanation is presented in the <220> to <223> fields of each sequenc which presents at least one n or Xaa.**

**VERIFICATION SUMMARY** DATE: 05/22/2001
PATENT APPLICATION: **US/09/841,132** TIME: 16:14:06

Input Set : **A:\US08186269A.raw**
Output Set: **C:\CRF3\05222001\I841132.raw**

L:13 M:270 C: Current Application Number differs, Wrong Format
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:3970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:5193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:6854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263
L:6895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264
L:6931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:6972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266
L:7058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271
L:7316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287
L:17644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:492
L:18675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512
L:18677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512
L:19520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524
L:19522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524